

VOLTAGE CONTROLLED OSCILLATOR

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Inventor: NISHIYAMA HITOSHI; others: 01
Applicant: ANRITSU CORP
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Abstract of JP3029504

PURPOSE: To attain broad band oscillation at a wide and linear region by applying a control voltage to each varactor diode in an oscillation circuit and a feedback circuit so as to vary the oscillating frequency.

CONSTITUTION: The capacitance of varactor diodes D1, D2 in a feedback circuit 4 is controlled to be small by a control voltage so as to decrease the input admittance of FETs 1, 2 when the oscillating frequency is high in the state that the control voltage is applied to the varactor diodes D1, D2 in an oscillation circuit 3 from a voltage control section 5. Moreover, the capacitance of the varactor diodes D1, D2 in the feedback circuit 4 is controlled to be larger with the control voltage when the oscillating frequency is low and the feedback quantity fed to the FETs 1, 2 is increased to keep the oscillating state. Thus, the broad band oscillation in a broad band is attained linearly.

